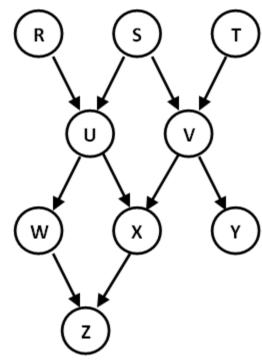
## **D-Separation Examples**

Consider the following Bayes Net graph:



Determine for each statement below, whether or not it is guaranteed to be true, based on D-Separation. If not guaranteed, give at least one active path that prevents the guarantee.

$$2.U \perp T \mid V$$
 Mot, USV T

6 
$$X \perp T \mid U, V$$
 Not,  $\chi V \uparrow$ 

$$7. S \perp T \mid Z$$
 /vot, SVT